

C L A I M S

1. A toothed belt (1), comprising a body (2) and a plurality of teeth (4); said teeth being coated with a fabric (5); said fabric (5) being coated on the outside with a resistant layer (8); said resistant layer (8) comprising a fluorinated plastomer, an elastomeric material and a vulcanizing agent; said fluorinated plastomer being present in said resistant layer (8) in an amount higher than that of said elastomeric material; said toothed belt being characterized in that said fluorinated plastomer is formed mainly by particles of average size smaller than 10 μm , and in that said resistant layer (8) is made to adhere directly to said fabric.

2. The toothed belt according to Claim 1, characterized in that said fluorinated plastomer is polytetrafluoroethylene.

3. The toothed belt according to Claim 1, characterized in that said second elastomeric material comprises HNBR.

4. The toothed belt according to Claim 3, characterized in that said second elastomeric material comprises HNBR modified with a zinc salt of polymethacrylic acid.

5. The toothed belt according to Claim 1, characterized in that said resistant layer (8) comprises said fluorinated plastomer in an amount by weight of between 101 and 150 parts by weight with respect to said elastomeric material.

6. The toothed belt according to Claim 5, characterized in that said resistant layer (8) has a weight of between 50 and 80 g/m².

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7. A process for fabrication of a toothed belt according to Claim 1, characterized in that said resistant layer (8) is applied directly on said fabric (5) via spreading.

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8. A process for fabrication of a toothed belt, comprising:

forming an elongate belt body of an elastomeric material, the belt having a first, planar side and a

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second side opposite the first side;

forming teeth along the second side;

coating the teeth with a fabric;

coating the fabric with a resistant layer comprising a fluorinated plastomer, and elastomeric material and a
20 vulcanizing agent, the fluorinated plastomer being present in the resistant layer in an amount greater than an amount of the elastomeric material and comprising mainly particles of an average size less than 10 micrometers; and

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directly adhering the resistant layer to the fabric coated over the teeth.

9. A process according to claim 8 in which the resistant layer is applied directly to the fabric via
30 spreading.

10. A process according to claim 8 in which forming the elongate belt body includes embedding a plurality of longitudinal filiform resistant inserts or cords in the elastomeric material.